

FY



PCT09

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/913,351

TIME: 18:44:54

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

ENTERED

3 <110> APPLICANT: DELGADO, AURORA BRIEVA
4 VILLARRUBIA, VINCENTE GARCIA
5 GOMEZ-PAMO, ANTONIO GUERRERO
6 RANIERI, JUAN PABLO PIVEL
7 GALLEG0, GUILLERMO GIMENEZ
8 TUDURI, JOSE ANTONIO MATJI
10 <120> TITLE OF INVENTION: PHARMACOLOGICALLY ACTIVE POLYPEPTIDE GLYCOCONJUGATES.
12 <130> FILE REFERENCE: 618999-1/JP/B-4275 PCT
14 <140> CURRENT APPLICATION NUMBER: 09/913,351
15 <141> CURRENT FILING DATE: 1999-10-21
17 <150> PRIOR APPLICATION NUMBER: PCT/ES99/00338
18 <151> PRIOR FILING DATE: 1999-10-21
20 <150> PRIOR APPLICATION NUMBER: ES P9900408
21 <151> PRIOR FILING DATE: 1999-02-26
23 <160> NUMBER OF SEQ ID NOS: 5
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 230
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence: Formula
34 sequence
36 <220> FEATURE:
37 <221> NAME/KEY: MOD_RES
38 <222> LOCATION: (1)..(48)
39 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
40 3-48 amino acids
42 <220> FEATURE:
43 <221> NAME/KEY: MOD_RES
44 <222> LOCATION: (50)..(62)
45 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
46 9-13 amino acids
48 <220> FEATURE:
49 <221> NAME/KEY: MOD_RES
50 <222> LOCATION: (64)
51 <223> OTHER INFORMATION: Gln, Glu, Arg or Lys
53 <220> FEATURE:
54 <221> NAME/KEY: MOD_RES
55 <222> LOCATION: (65)
56 <223> OTHER INFORMATION: Variable amino acid
58 <220> FEATURE:
59 <221> NAME/KEY: MOD_RES

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/913,351

TIME: 18:44:54

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

60 <222> LOCATION: (66)
61 <223> OTHER INFORMATION: Hydrophobic amino acid
63 <220> FEATURE:
64 <221> NAME/KEY: MOD_RES
65 <222> LOCATION: (67)
66 <223> OTHER INFORMATION: Leu, Ile, Val or Met
68 <220> FEATURE:
69 <221> NAME/KEY: MOD_RES
70 <222> LOCATION: (68)..(106)
71 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
72 15-39 amino acids
74 <220> FEATURE:
75 <221> NAME/KEY: MOD_RES
76 <222> LOCATION: (109)
77 <223> OTHER INFORMATION: Hydrophobic amino acid ← ?
79 <220> FEATURE:
80 <221> NAME/KEY: MOD_RES
81 <222> LOCATION: (110)
82 <223> OTHER INFORMATION: Gln, Glu or His
84 <220> FEATURE:
85 <221> NAME/KEY: MOD_RES
86 <222> LOCATION: (111)
87 <223> OTHER INFORMATION: Leu or Val
89 <220> FEATURE:
90 <221> NAME/KEY: MOD_RES
91 <222> LOCATION: (112)..(117)
92 <223> OTHER INFORMATION: Variable amino acid
94 <220> FEATURE:
95 <221> NAME/KEY: MOD_RES
96 <222> LOCATION: (119)
97 <223> OTHER INFORMATION: Variable amino acid
99 <220> FEATURE:
100 <221> NAME/KEY: MOD_RES
101 <222> LOCATION: (121)..(122)
102 <223> OTHER INFORMATION: Variable amino acid
104 <220> FEATURE:
105 <221> NAME/KEY: MOD_RES
106 <222> LOCATION: (123)
107 <223> OTHER INFORMATION: Leu or Ile
109 <220> FEATURE:
110 <221> NAME/KEY: MOD_RES
111 <222> LOCATION: (124)..(179)
112 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
113 13-56 amino acids
115 <220> FEATURE:
116 <221> NAME/KEY: MOD_RES
117 <222> LOCATION: (181)..(206)
118 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
119 15-26 amino acids

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/913,351

TIME: 18:44:54

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

```

121 <220> FEATURE:
122 <221> NAME/KEY: MOD_RES
123 <222> LOCATION: (208)
124 <223> OTHER INFORMATION: Variable amino acid
126 <220> FEATURE:
127 <221> NAME/KEY: MOD_RES
128 <222> LOCATION: (209)
129 <223> OTHER INFORMATION: Val, Ile, Leu or Met
131 <220> FEATURE:
132 <221> NAME/KEY: MOD_RES
133 <222> LOCATION: (210)..(217)
134 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
135     1-8 amino acids
137 <220> FEATURE:
138 <221> NAME/KEY: MOD_RES
139 <222> LOCATION: (218)..(230)
140 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass
141     1-12 amino acids
143 <400> SEQUENCE: 1
W--> 144 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
145     1           5           10           15
W--> 147 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
148           20           25           30
W--> 150 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
151           35           40           45
W--> 153 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa
154 44 50 55 60 63 64
W--> 156 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
157 65 66 67 68 70 75 80
W--> 159 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
160           85           90           95
W--> 162 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Xaa
163           100          105          107 108 109 110
W--> 165 Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
166           115          118          120          125
W--> 168 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
169           130          135          140
W--> 171 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
172 145           150          155          160
W--> 174 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
175           165          170          175
W--> 177 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
178 177 180 185 190
W--> 180 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa
181           195          200          205
W--> 183 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
184           210          215          220
W--> 186 Xaa Xaa Xaa Xaa Xaa Xaa
187 225          230

```

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/913,351

TIME: 18:44:54

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

```

190 <210> SEQ ID NO: 2
191 <211> LENGTH: 37
192 <212> TYPE: PRT
193 <213> ORGANISM: Ricinus communis
195 <400> SEQUENCE: 2
196 Glu Ser Lys Gly Glu Arg Glu Gly Ser Ser Ser Gln Gln Cys Arg Gln
197   1           5           10           15
199 Glu Val Gln Arg Lys Asp Leu Ser Ser Cys Glu Arg Tyr Leu Arg Gln
200           20           25           30
202 Ser Ser Ser Arg Arg
203           35
206 <210> SEQ ID NO: 3
207 <211> LENGTH: 68
208 <212> TYPE: PRT
209 <213> ORGANISM: Ricinus communis
211 <400> SEQUENCE: 3
212 Gln Gln Gln Glu Ser Gln Gln Leu Gln Gln Cys Cys Asn Gln Val Lys
213   1           5           10           15
215 Gln Val Arg Asp Glu Cys Gln Cys Glu Ala Ile Lys Tyr Ile Ala Glu
216           20           25           30
218 Asp Gln Ile Gln Gln Gly Gln Leu His Gly Glu Glu Ser Glu Arg Val
219           35           40           45
221 Ala Gln Arg Ala Gly Glu Ile Val Ser Ser Cys Gly Val Arg Cys Met
222           50           55           60
224 Arg Gln Thr Arg
225   65
228 <210> SEQ ID NO: 4
229 <211> LENGTH: 34
230 <212> TYPE: PRT
231 <213> ORGANISM: Ricinus communis
233 <400> SEQUENCE: 4
234 Pro Ser Gln Gln Gly Cys Arg Gly Gln Ile Gln Glu Gln Gln Asn Leu
235   1           5           10           15
237 Arg Gln Cys Gln Glu Tyr Ile Lys Gln Gln Val Ser Gly Gln Gly Pro
238           20           25           30
240 Arg Arg
244 <210> SEQ ID NO: 5
245 <211> LENGTH: 65
246 <212> TYPE: PRT
247 <213> ORGANISM: Ricinus communis
249 <400> SEQUENCE: 5
250 Gln Glu Arg Ser Leu Arg Gly Cys Cys Asp His Leu Lys Gln Met Gln
251   1           5           10           15
253 Ser Gln Cys Arg Cys Glu Gly Leu Arg Gln Ala Ile Glu Gln Gln Gln
254           20           25           30
256 Ser Gln Gly Gln Leu Gln Gly Gln Asp Val Phe Glu Ala Phe Arg Thr
257           35           40           45
259 Ala Ala Asn Leu Pro Ser Met Cys Gly Val Ser Pro Thr Glu Cys Arg
260           50           55           60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,351

DATE: 02/06/2002

TIME: 18:44:54

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

262 Phe

263 65

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/913,351

DATE: 02/06/2002

TIME: 18:44:55

Input Set : A:\618jpb75.app

Output Set: N:\CRF3\02062002\I913351.raw

L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1